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| APPLICATION NO. | FILING D. | ATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-----------------|------------------------------|--------------|----------------------|--------------------------|--------------------------|--|
| 10/062,593 | 01/31/20 | 002 | Prathima Agrawal | 1296 | 3418 | |
| 9941 | 7590 | 01/12/2006 | | EXAMINER | | |
| | IA TECHNOL | PARK, JUNG H | | | | |
| | ORDIA DRIVE 'AY, NJ 08854 | | | ART UNIT | PAPER NUMBER | |
| | ŕ | | | 2661 | | |
| | | | | DATE MAIL ED: 01/12/2004 | DATE MAIL ED: 01/12/2006 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|--|--|---|------------|--|--|--|--|--|
| | Application No. | Applicant(s) | | | | | | |
| Office Antique Occurrence | 10/062,593 | AGRAWAL ET AL. | | | | | | |
| Office Action Summary | Examiner | Art Unit | | | | | | |
| | Jung Park | 2661 | | | | | | |
| The MAILING DATE of this communication ap Period for Reply | ppears on the cover sheet w | ith the correspondence addres: | S | | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY TO BE A STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY THE PROPERTY OF THE MAILING IDENTIFY THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE MAILING IDENTIFY OF THE PROPERTY OF THE PROPERT | DATE OF THIS COMMUNI .136(a). In no event, however, may a d will apply and will expire SIX (6) MOI te, cause the application to become A | CATION. reply be timely filed NTHS from the mailing date of this commur BANDONED (35 U.S.C. § 133). | | | | | | |
| Status | | | | | | | | |
| 1) Responsive to communication(s) filed on | | | | | | | | |
| • | · | | | | | | | |
| 3) Since this application is in condition for allows | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is | | | | | | | |
| closed in accordance with the practice under | Ex parte Quayle, 1935 C. | D. 11, 453 O.G. 213. | | | | | | |
| Disposition of Claims | | | | | | | | |
| 4)⊠ Claim(s) <u>1-36</u> is/are pending in the application | n. | | | | | | | |
| 4a) Of the above claim(s) is/are withdra | 4a) Of the above claim(s) is/are withdrawn from consideration. | | | | | | | |
| 5)⊠ Claim(s) <u>25-36</u> is/are allowed. | Claim(s) <u>25-36</u> is/are allowed. | | | | | | | |
| 6)⊠ Claim(s) <u>1-8 and 13-20</u> is/are rejected. | Claim(s) <u>1-8 and 13-20</u> is/are rejected. | | | | | | | |
| 7) \boxtimes Claim(s) <u>9-12 and 21-24</u> is/are objected to. | Claim(s) <u>9-12 and 21-24</u> is/are objected to. | | | | | | | |
| 8) Claim(s) are subject to restriction and/ | or election requirement. | | | | | | | |
| Application Papers | | | | | | | | |
| 9)⊠ The specification is objected to by the Examin | ner. | | | | | | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ ac | cepted or b) objected to | by the Examiner. | | | | | | |
| Applicant may not request that any objection to the | e drawing(s) be held in abeya | nce. See 37 CFR 1.85(a). | | | | | | |
| Replacement drawing sheet(s) including the corre | | | | | | | | |
| 11)☐ The oath or declaration is objected to by the E | Examiner. Note the attache | d Office Action or form PTO-1 | 52. | | | | | |
| Priority under 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Bures | nts have been received. nts have been received in a ority documents have been | Application No | ge | | | | | |
| * See the attached detailed Office action for a list Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 | 4) ☐ Interview Paper No 8) 5) ☐ Notice of | Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152 | () | | | | | |
| Paper No(s)/Mail Date | 6) | | | | | | | |

DETAILED ACTION

Claim Objections

1. Claim 19 is objected to because of the following informalities:

The number "8" should be changed to --13--.

Appropriate correction is required.

Specification

2. The disclosure is objected to because of the following informalities:

In page 21, line16, "base station 6' forwards" should be changed to --base station 4' forwards--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-8 and 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the RFC 2131 (Dynamic Host Configuration Protocol, hereinafter "the RFC") in view of Fukutomi et al. (US Pub. 2002/0076054, "Fukutomi").

Regarding claims 1 and 13, the RFC teaches, "a method for dynamic assignment and validation of IP addresses in a wireless IP network, comprising the following steps:

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- determining whether the IP messages (pg.2, sec.1, In.1-2, where ...DHCP provides configuration parameters to Internet hosts..., i.e., the hosts (terminals) generate IP packets including DHCP messages (pg.9, fig.1) and DHCPDISCOVER and DHCPREQUEST are a plurality of broadcast messages; the determination is based on the message type described in following) are one of assignment request messages (pg.13, sec.3, In.19-20 where DHCPDISCOVER is an assignment request message if the message type is "1") and validation request messages (DHCPREQUEST is a validation request message based on the message type) based on IP headers of the received IP messages (based on the DHCP information within the IP header); - determining origination of the received request messages based on the IP address headers of the received request messages (pg.18, In.2-3 where origination of the received request messages is based on the requested IP address option); and selectively forwarding the received request messages to a server without transmitting the request messages to other mobile terminals which are actively communicating with base stations and to base stations which reside on a wired IP network based on the origination of the request messages (pg.38, In.31-34 where the client (base station) sends the DHCPREQUEST messages by using the 'server identifier' field option, therefore, the client selectively forwards the request message to a server based on the server identifier without transmitting the messages to other mobile terminals and to base stations).

The RFC teaches the step of broadcasting IP messages from a client to servers in a network (see pg.15, fig.3), but lacks what Fukutomi teaches, "broadcasting IP

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messages (fig. 5) from a mobile terminal (terminals fig. 1) to the wireless network (fig. 1 and fig. 5)."

Therefore, it would have been obvious to one of ordinary skill in the art at the time of invention was made to apply the method, taught by Fukutomi, of transmitting packs from a wireless terminal to an access point based on a DHCP into the dynamic host configuration protocol providing a framework for passing configuration information to hosts on a TCP/IP network. The motivation of including DHCP processing sections (16 fig.2 & 23 fig.3) in mobile terminal and access point is to transmit and receive a packet based on the DHCP when starting communication with the access point (see Fukutomi, para.[0030]).

Regarding claims 2 and 14, the RFC further teaches, "broadcasting non assignment messages and non validation messages (pg.40, sec.4.4.4 where the client broadcasts DHCPDECLINE messages) based on the IP headers of the received IP messages (pg.40, sec.4.4.4 where ...IP address supplied by the server...); and returning to the step of broadcasting IP messages from the mobile terminal (go back to the first step of claim 1 for a new request).

Regarding claims 3 and 15, the RFC further teaches, "destination addresses in IP addresses are broadcast addresses (pg.40, sec.4.4.4 where the client *broadcasts* DHCPDECLINE messages)."

Regarding claims 4 and 16, the RFC further teaches, "determining whether a source IP address and a destination IP address are broadcast addresses (pg.11, ln.16-17 where it is determined by use of BROADCAST (B) flag)."

Regarding claims 5 and 17, the RFC lacks what Fukutomi further teaches, "a base station receives the broadcasted messages (fig.5 where access point receives DHCPREQUEST broadcast messages). Therefore these claims are rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claims 6 and 18, the RFC lacks what Fukutomi further teaches, "the servers are DHCP servers, and the mobile terminals are clients of the DHCP servers (fig.5; para.[0045] where ... the authentication server functions as the DHCP server)." Therefore these claims are rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claims 7 and 19, they are claims corresponding to the determining step of claim 1 and are therefore rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claims 8 and 20, the RFC further teaches, "triggering an IP address validation (pg.18, ln.1 ...broadcasts a DHCPREQUEST message...) when the mobile terminal enters a new subnet (...its local subnet)."

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Allowable Subject Matter

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5. Claim 25-36 are allowed.

6. Claims 9-12 and 21-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 7:10-4:40.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571-272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jung Park Patent Examiner Art Unit 2661 January 5, 2006

CHAU NGUYEN SUPERVISORY PATENT EXAMINER

Chave T. Nfinger

TECHNOLOGY CENTER 2600